# LG-ITR2C-554624

## DATA SHEET

SPEC.NO.: SZ19060410
DATE: 2019/06/04
REV. A/0

Approved By: Checked By: Prepared By:

## Features

- Fast response time
- High analytic

Cut-off visible wavelength λp=940nm

- High sensitivity
- Pb free
- The product itself will remain within RoHS compliant version

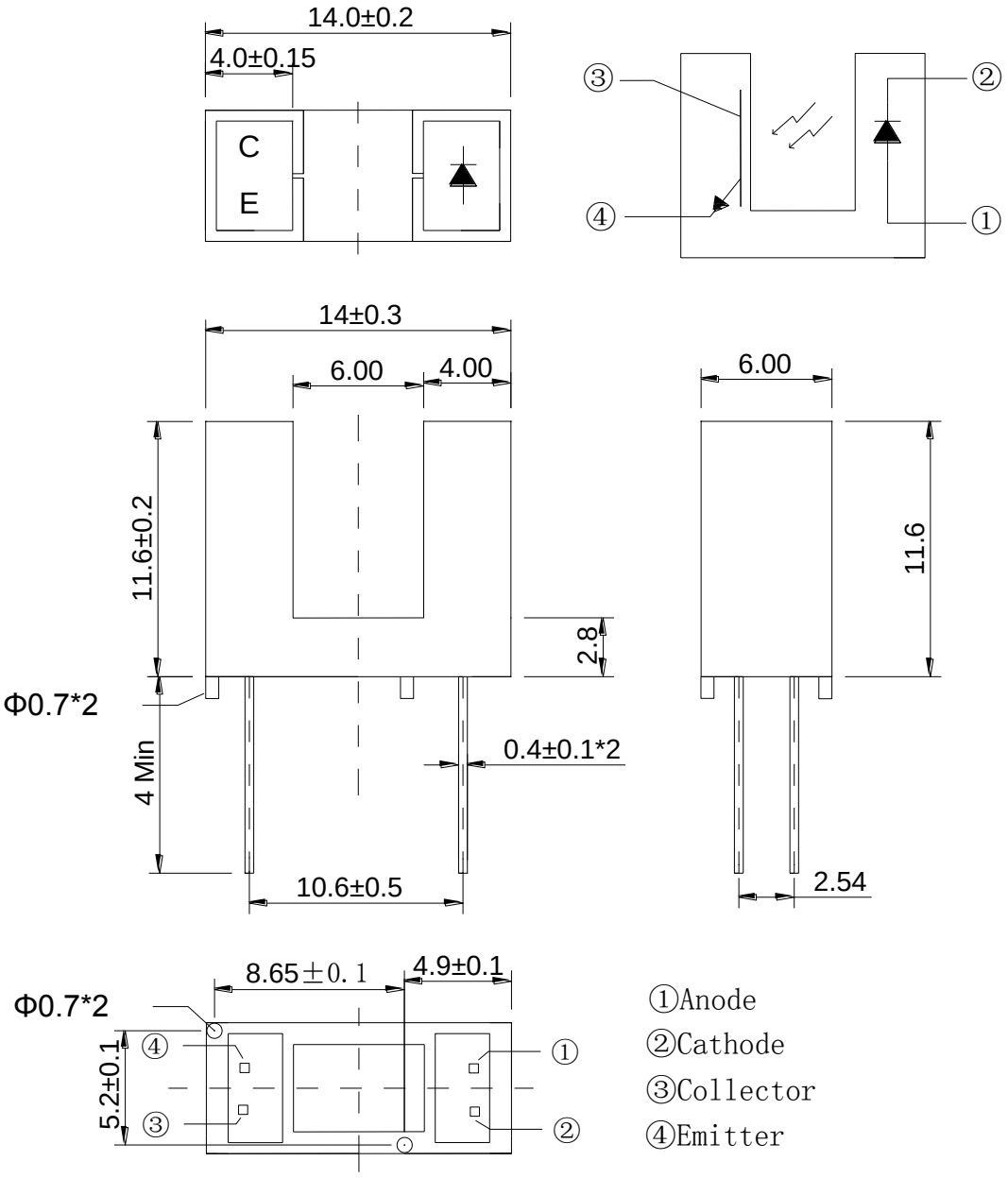
The LG-ITR2C-554624

- Mouse Copier
- Switch Scanner
- Floppy disk driver
- Non-contact Switching
- For Direct Board

## Device Selection Guide

| Device No. | Chip Material | LENS COLOR |
|---|---|---|
| IR | GaAlAs | Water Clear |
| PT | Silicon | Water Clear |

## Package Dimensions




**Notes:**

1. All dimensions are in millimeters.
2. Tolerance is ±0.20mm unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.

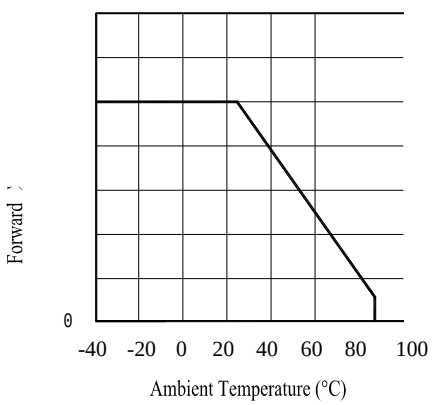
## Absolute Maximum Ratings (Ta=25℃)

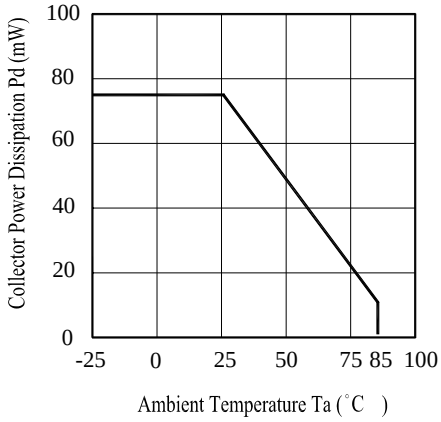
| Parameter | | Symbol Ratings | Unit | |
|---|---|---|---|---|
| Input | Power Dissipation at(or below) 25℃ Free Air Temperature | Pd | 75 | mW |
| | Reverse Voltage | $V_R$ | 5 | V |
| | Forward Current | $I_F$ | 50 | mA |
| | Peak Forward Current (*1) Pulse width ≦100μs, Duty cycle=1% | $I_{FP}$ | 1 | A |
| Output | Collector Power Dissipation | $P_C$ | 100 | mW |
| | Collector Current | $I_C$ | 50 | mA |
| | Collector-Emitter Voltage | B $V_{CEO}$ | 30 | V |
| | Emitter-Collector Voltage | B $V_{ECO}$ | 5 | V |
| Operating Temperature | | Topr | -20~+65 | ℃ |
| Storage Temperature | | Tstg | -30~+70 | ℃ |
| Lead Soldering Temperature (*2) (1/16 inch form body for 5 seconds) | | Tsol | 260 | ℃ |

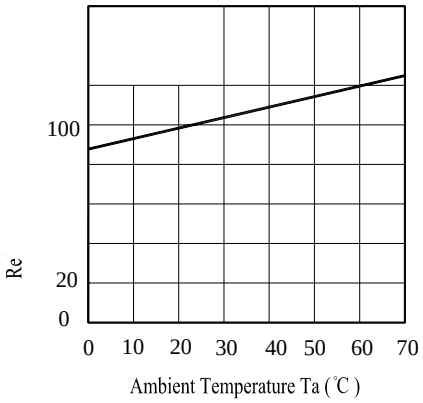
( ∗1) tw=100 μsec. , T=10 msec. ( ∗2) t=5 Sec

## Electro-Optical Characteristics (Ta=25℃)

| Parameter | | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|---|---|---|---|---|---|---|---|
| Input | Forward Voltage | VF | --- | 1.2 | 1.5 | V | IF=20mA |
| | Reverse Current | IR | --- | --- | 10 | μA | VR=5V |
| | Peak Wavelength | λP | --- | 940 | --- | nm | IF=20mA |
| Output | Dark C urrent | ICEO | --- | --- | 100 | nA | $V_{CE}$=20V,Ee=0mW / cm2 |
| | C-E Saturation Voltage | VCE(sat) | --- | --- | 0.4 | V | IC=2mA ,Ee=1mW/cm2 |
| Transfer Characteristics | Collect Current | IC(ON) | 0.5 | --- | --- | mA | VCE=5V IF=20mA |
| | Rise time | tr | --- | 15 | --- | μsec | VCE=5V IC=1mA RL=1K |
| | Fall time | tf | --- | 15 | --- | μsec | |


Forward
0
-40 -20 0 20 40 60 80 100
Ambient Temperature (°C)


100
80
60
40
20
0
Collector Power Dissipation Pd (mW)
-25
0
25
50
75 85
100
Ambient Temperature Ta (°C )


100
20
0
Re
0
10
20
30
40
50
60
70
Ambient Temperature Ta (°C )